

Rao Muhammad Touqeer

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Teaching Experience

Visiting lecturer in Mathematics

University of Education Lahore(Multan Campus).

February 2022 – Present

Multan, Pakistan

Taught Courses:

1. Abstract Algebra
2. Linear Algebra
3. Rings and Fields
4. Complex Analysis
5. Calculus
6. Analytic Number Theory
7. Set Topology
8. Functional Analysis

Research Experience

Co-supervising

University of Education Lahore(Multan Campus).

February 2024 – Present

Multan, Pakistan

Co-supervising two students: one in coding theory and the other in cryptography, guiding their research methodologies, problem solving approaches and their academics writing of thesis.

Education

Quaid-i-Azam University Islamabad, Pakistan.

MPhil Pure Mathematics/Coding Theory and Cryptography

September 2019 - December 2021

COMSATS University Islamabad, Sahiwal Pakistan

MSc Mathematics/Post-Quantum Cryptography

February 2015 - March 2017

Research Conferences

Attended

02/03/2022, Modern Trends in Mathematics, Fatimah Jinnah University, Islamabad

10/08/2022, Modern applications of Algebra and Number Theory, ASSMS, Lahore

05/10/2022, Simulation with MATLAB, PIEAS University, Islamabad

Presented

03/05/2022, Modern Applications of Cryptography, PIEAS University Islamabad

05/11/2019, Modular Arithmetic for Modern Ciphers, Quaid-i-Azam University, Islamabad

12/12/2019, Applications of Applied Algebra, Institute of Space Technology, Islamabad

01/01/2020, DES and DES Structure and Cryptanalysis, Quaid-i-Azam University, Islamabad

Research Internships

CIMPA Research School on Pure and Applied Mathematics.

26/02/2024, Algebra And Algebraic Geometry For Applications. LUMS University, Pakistan

10/06/2024, Bridges Between Algebra and Combinatorics. Colombia (Online)

09/08/2024, Post-Quantum Algebraic Cryptography, Institute of Henry Poincare, IHP France

National Programme On Technology Enhanced Learning (NPTEL) Onlines Courses

1. Elementary Number Theory. By Prof. S.A. Katre, IIT Madras, India
2. Computational Commutative Algebra. By Prof Manooj Kumini, CMI Chennai, India
3. Introduction to Galois Theory. By Prof Dilip Patil, IIT Bombay, India
4. Quantum Algorithms and Cryptography. By Prof. Shewta Agrwal, IIT Madras, India
5. Error Control Coding. By Prof. Andrew Thangaraj IIT Madras, India
6. Introduction To Quantum Computing and Quantum Algorithms and Qiskit, By Prof. (Prabha, Anupma, Ragunathan) IIT Madras, IBM Research and IBM Systems, India

Specialized Skills

Programming Languages: C++, Python, MATLAB.

International Mathematics Memberships

1. **American Mathematical Society (AMS)**
2. **International Society for Mathematical Sciences (ISMS)**
3. **International Association for Cryptologic Research (IACR)**
4. **Pakistan Mathematical Society (PaKMS)**

Research Interests

Research Interests:

Algebra, Number Theory, Coding Theory and Cryptography applications

Awards & Honors

Best Instructor Award Shield

Pakistan National Youth Training institute (PNY)

Multan Pakistan

Best Lecturer Award Shield

Punjab Group Of Colleges (PGC)

Lodhran, Pakistan

Languages Skills

Urdu: Native

English: Advance

RECOMMENDATIONS

MPhil Supervisor and Chairman:

Name: Prof. Dr. Tariq Shah

Phone number: (+92) 3335072554

Email: stariqshah@qau.edu.pk

Principal and Chairperson:

Name: Prof. Dr. M.Asad Meraj

Phone number: (+92) 3249825404

Email: asad@ue.edu.pk